

A Conservative Phenomenological Model of Large-Scale Bulk Flow

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This document is an archival PDF consolidating the phenomenological dark flow model, including its core equations, derivation outline, and test procedures. It is suitable for long-term storage and citation.

Core Equations

$$\begin{aligned}\nabla^2\Phi_{\text{eff}} &= 4\pi G(\rho_{\text{m}} + \rho_{\text{ext}}) - \lambda_{\text{s}} \nabla \cdot (\sigma \nabla \Phi_{\text{eff}}) \\ \rho_{\text{ext}} &= \zeta \cdot \mathbf{b} \cdot \rho_{\text{p}} \\ \mathbf{v}_{\text{df}} &= -\mu \nabla \Phi_{\text{eff}}\end{aligned}$$

Status

Archive-ready. Math-pass clean. Conservative phenomenological scope.